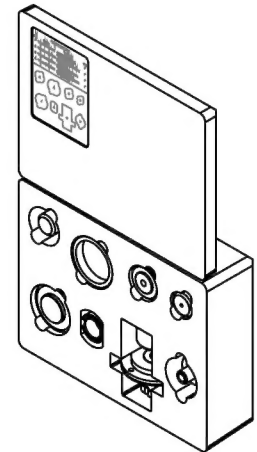
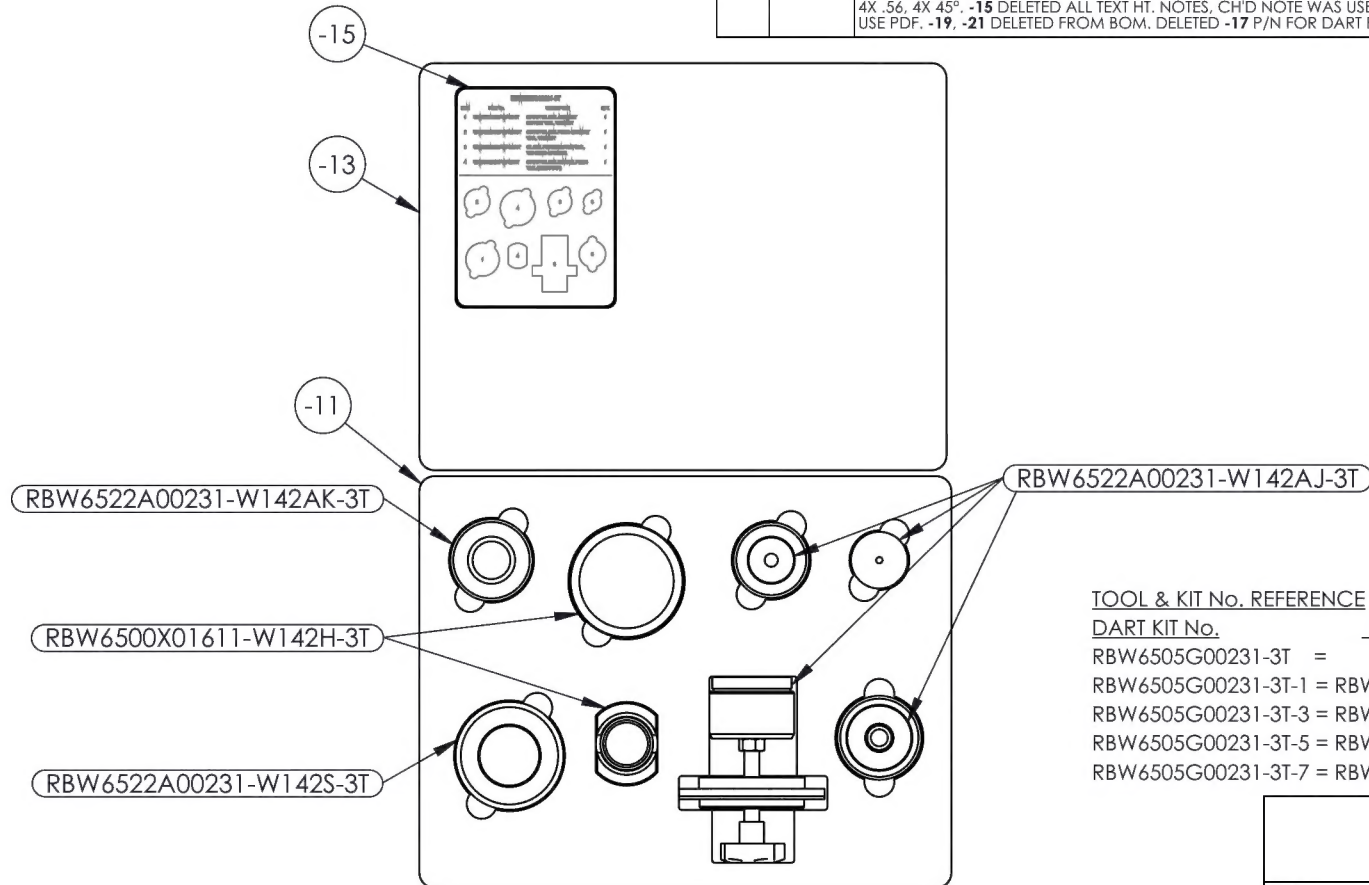


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-11 CH'D DEPTH WAS 3-1/2 IS 4-3/4, WAS 4-3/4 IS 5-9/16. -13 CH'D PLACARD LOCATION CUTOUT WAS HITTING TOOL WITH LID CLOSED.	10/2/2012	RJC	SE
2	15-0145	-11 ADDED MISSING DIM 8X R.13. -13 CH'D DIM WAS .07 IS .13. -15 REPLCED CONTENTS LIST WITH RBW6505G00231-3T, DELETED LINES FROM TOOL LAYOUT, ADDED ITEM NUMBERS TO TOOL LAYOUT. ADDED -19 AND -21.	6/23/2015	RJC	JAG
3	16-0254	-11, -13, -15 CH'D DWG. TO SHEET METAL TOLERANCE. -11, -13 CH'D MATERIAL AND VENDOR WAS Y20 BLACK I.R. SPECIALTY FOAM IS ETHAFOAM 220, BLACK (CASE SOLUTIONS). -11 CH'D DIM WAS 17.00 IS 17.15, WAS 22.00 IS 22.15, WAS 6.00 IS 6.08, WAS 4X 4° IS 4X 2°, ADDED DIM 4X .65, 4X 45°. -13 CH'D DIM WAS 17.00 IS 16.96, WAS 22.00 IS 21.95, WAS 1.88 IS 1.83, WAS 4X 4° IS 4X 2°, ADDED DIM 4X .56, 4X 45°. -15 DELETED ALL TEXT HT. NOTES, CH'D NOTE WAS USE PDF FOR MANUFACTURING IS USE PDF. -19, -21 DELETED FROM BOM. DELETED -17 P/N FOR DART PLACARD.	12/5/2016	RJC	JAG



TOOL & KIT No. REFERENCE

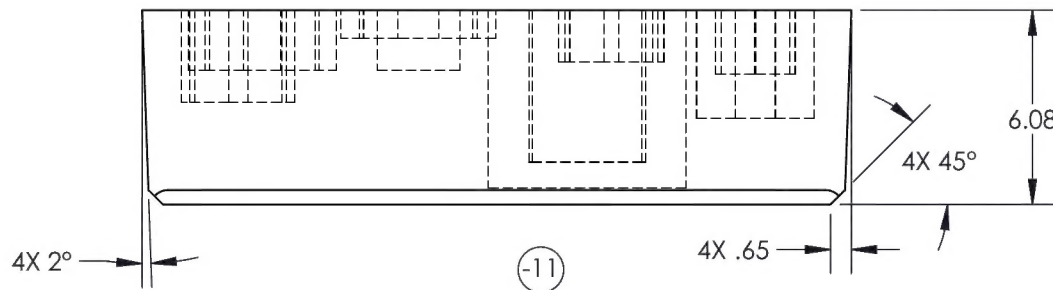
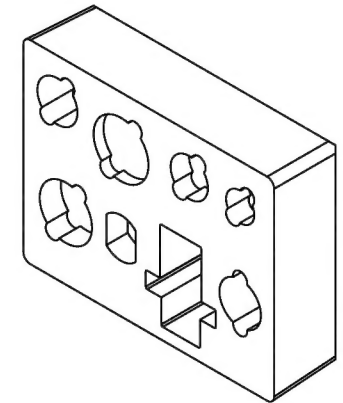
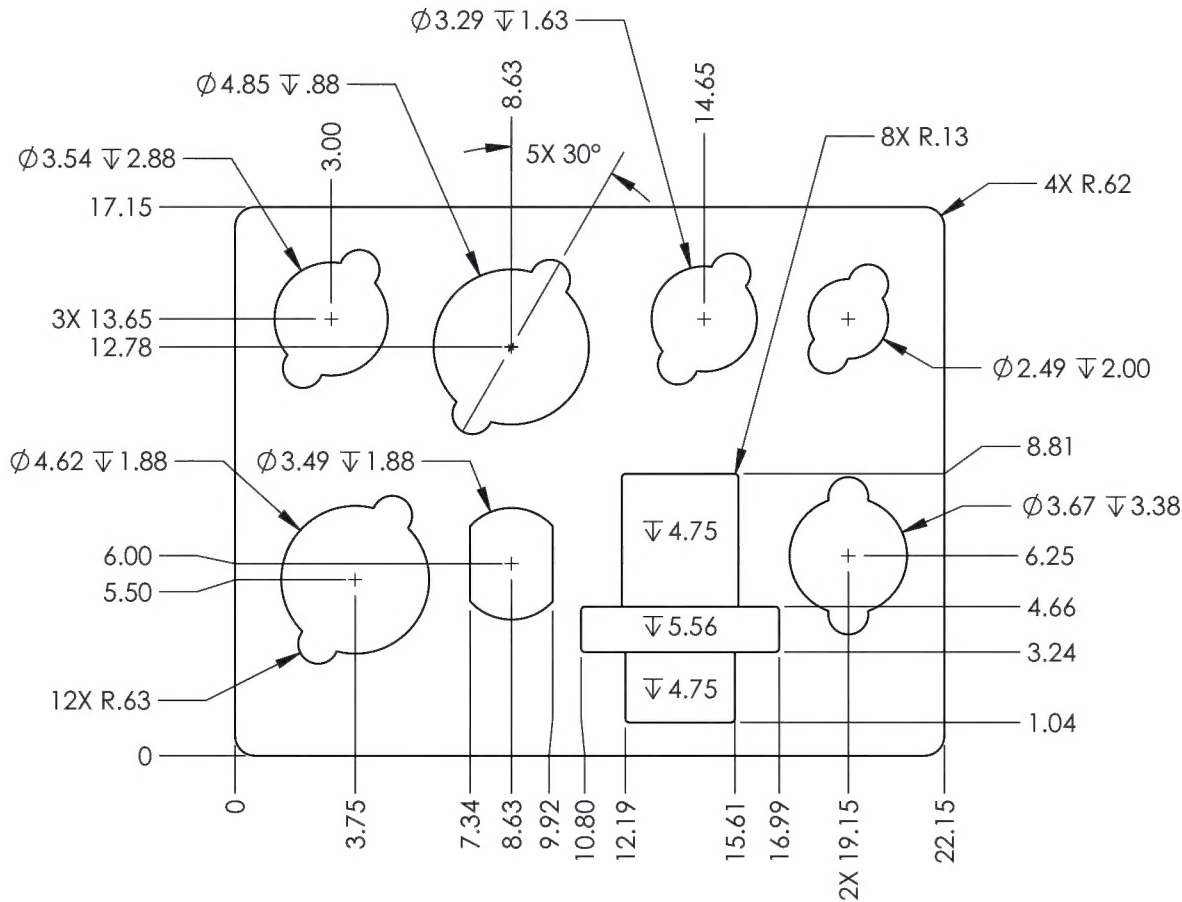
DART KIT No.	DART TOOL No.	ORIGINAL No.
RBW6505G00231-3T	=	= 3T6505G00231
RBW6505G00231-3T-1	= RBW6522G00231-W142S-3T	= 3T6522G00231-W142S
RBW6505G00231-3T-3	= RBW6522G00231-W142AK-3T	= 3T6522G00231-W142AK
RBW6505G00231-3T-5	= RBW6522G00231-W142AJ-3T	= 3T6522G00231-W142AJ
RBW6505G00231-3T-7	= RBW6500X01611-W142H-3T	= 3T6500X01611-W142H

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
				1	TGB/MAST OUTPUT OIL SEAL ASSEMBLY SUPPORT TOOL		RBW6522A00231-W142S-3T	1
				1	OUTPUT OIL SEAL PRESS TOOL		RBW6522A00231-W142AK-3T	1
				1	TGB/SERVO ACTUATOR OIL SEAL FIT/EXTRACTION TOOL		RBW6522A00231-W142AJ-3T	1
				1	TGB OUTPUT OIL SEAL REMOVAL AND PRESS TOOL		RBW6500X01611-W142H-3T	1
		B/O	-9	1	CASE	BLACK PLASTIC	PELICAN #APP-IM2700-E	N/S
		B/O	-11	1	BOTTOM TOOL CUSHION	ETHAFOAM 220, BLACK	6.08 X 17.15 X 22.15 (CASE SOLUTIONS)	2
		B/O	-13	1	TOP TOOL CUSHION	ETHAFOAM 220, BLACK	1.83 X 16.96 X 21.95 (CASE SOLUTIONS)	3
			-15	1	INSIDE PLACARD	PLASTIC		4
		B/O		1	DART PLACARD	ALUMINUM	#RB41011	N/S

DART AEROSPACE																							
TITLE TGB SEAL REPLACEMENT TOOL KIT																							
DWG NO. RBW6505G00231-3T	REV 3																						
<table border="1"> <tr> <td>MAT'L</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>TREAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>FINISH</td> <td>.XXX ± .005 FRACTIONS ± 1/8</td> </tr> <tr> <td></td> <td>.XX ± .01 ANGLES ± 5°</td> </tr> <tr> <td></td> <td>.X ± .1 SURFACES = 125/</td> </tr> <tr> <td>SPEC</td> <td>1. BREAK ALL SHARP EDGES</td> </tr> <tr> <td></td> <td>.015 x 45° OR .015R</td> </tr> <tr> <td></td> <td>2. DIMENSIONAL LIMITS APPLY</td> </tr> <tr> <td></td> <td>AFTER PLATING</td> </tr> <tr> <td></td> <td>3. INTERPRET DIM AND TOL PER</td> </tr> <tr> <td></td> <td>ASME Y14.5M-2009</td> </tr> </table>		MAT'L	UNLESS OTHERWISE SPECIFIED	TREAT	DIMENSIONS ARE IN INCHES	FINISH	.XXX ± .005 FRACTIONS ± 1/8		.XX ± .01 ANGLES ± 5°		.X ± .1 SURFACES = 125/	SPEC	1. BREAK ALL SHARP EDGES		.015 x 45° OR .015R		2. DIMENSIONAL LIMITS APPLY		AFTER PLATING		3. INTERPRET DIM AND TOL PER		ASME Y14.5M-2009
MAT'L	UNLESS OTHERWISE SPECIFIED																						
TREAT	DIMENSIONS ARE IN INCHES																						
FINISH	.XXX ± .005 FRACTIONS ± 1/8																						
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SPEC	1. BREAK ALL SHARP EDGES																						
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	2. DIMENSIONAL LIMITS APPLY																						
	AFTER PLATING																						
	3. INTERPRET DIM AND TOL PER																						
	ASME Y14.5M-2009																						
DRAWN BY: PERRITT	USED ON MODEL																						
CHECKED: DUERFELDT	AW139																						
OPPS APPR: ANDERSON																							
QA APPR: LINDSAY																							
APPROVED: GILBERT																							
SCALE 1:8	DATE 1/3/2009																						
SHEET 1 OF 4																							

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-11 CH'D DEPTH WAS 3-1/2 IS 4-3/4, WAS 4-3/4 IS 5-9/16.	10/2/2012	RJC	SE
2	15-0145	-11 ADDED MISSING DIM 8X R.13.	6/23/2015	RJC	JAG
3	16-0254	-11 CH'D DIM WAS 17.00 IS 17.15, WAS 22.00 IS 22.15, WAS 6.00 IS 6.08, WAS 4X 4° IS 4X 2°, ADDED DIM 4X .65, 4X 45°. CH'D MATERIAL AND VENDOR WAS Y20 BLACK I.R. SPECIALTY FOAM IS ETHAFOAM 220, BLACK (CASE SOLUTIONS). CH'D DWG TO SHEET METAL TOLERANCE.	12/5/2016	RJC	JAG

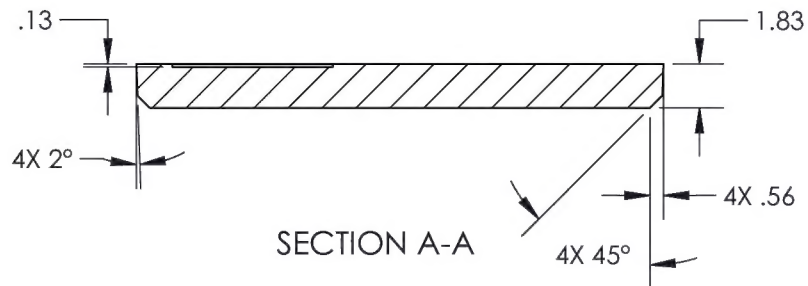
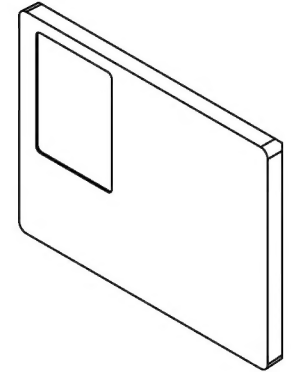
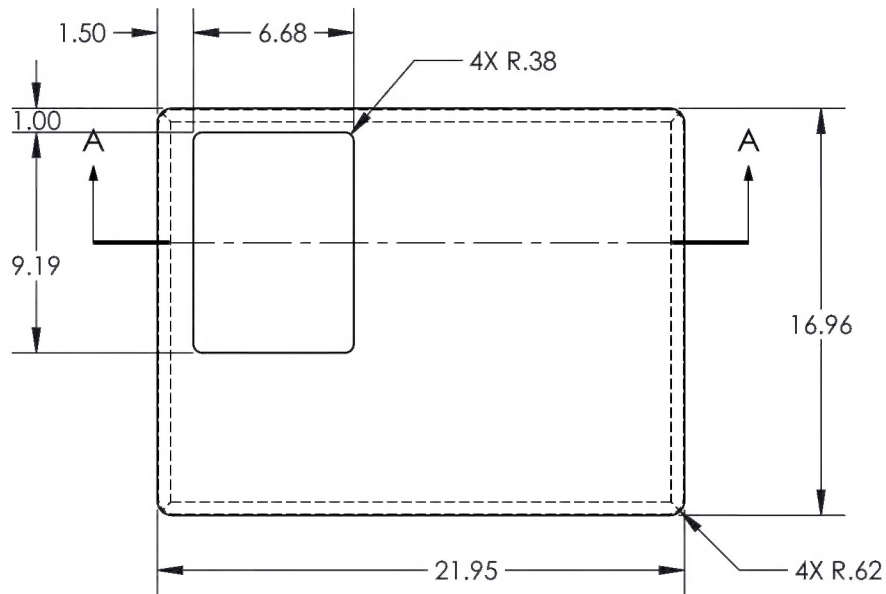


BOTTOM TOOL CUSHION

DART AEROSPACE	
TITLE TGB SEAL REPLACEMENT TOOL	
DWG NO. RBW6505G00231-3T-11	REV 3
MAT'L ETHAFOAM 220, BLACK	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX \pm .010 FRACTIONS \pm 1/8	
.XX \pm .03 ANGLES \pm 1°	
.X \pm .1 SURFACES = 125°	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL AW139	
SCALE 1:6	DATE 1/3/2009
SHEET 2 OF 4	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-13 CH'D PLACARD LOCATION CUTOUT WAS HITTING TOOL WITH LID CLOSED.	10/2/2012	RJC	SE
2	15-0145	-13 CH'D DIM WAS .07 IS .13.	6/23/2015	RJC	JAG
3	16-0254	-13 CH'D DIM WAS 17.00 IS 16.96, WAS 22.00 IS 21.95, WAS 1.88 IS 1.83, WAS 4X 4° IS 4X 2°, ADDED DIM 4X .56, 4X 45°. CH'D MATERIAL AND VENDOR WAS Y20 BLACK I.R. SPECIALTY FOAM IS ETHAFOAM 220, BLACK (CASE SOLUTIONS). CH'D DWG TO SHEET METAL TOLERANCE.	12/5/2016	RJC	JAG



SECTION A-A

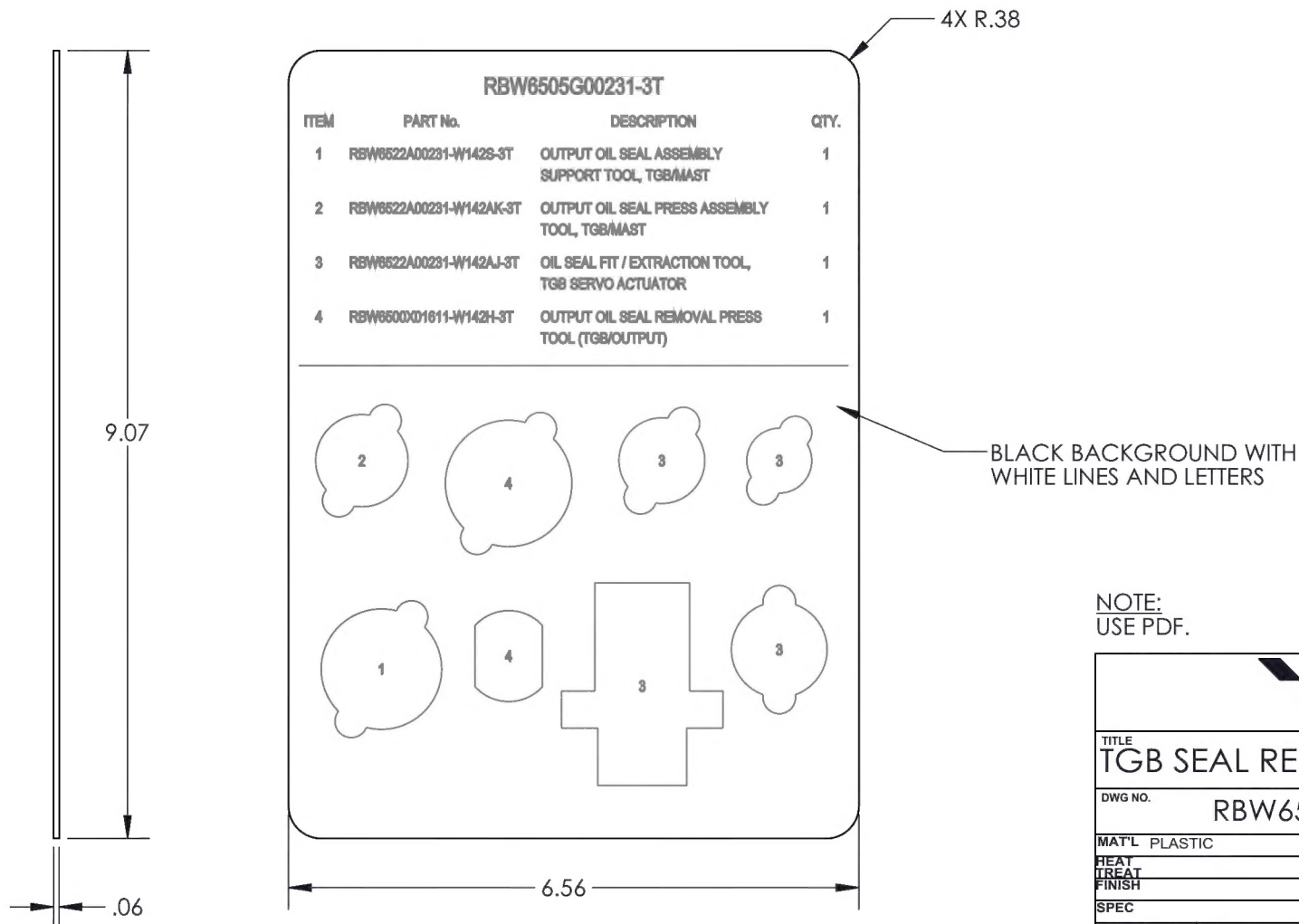
(-13)

TOP TOOL CUSHION

DART AEROSPACE	
TITLE TGB SEAL REPLACEMENT TOOL	
DWG NO. RBW6505G00231-3T-13	REV 3
MAT'L ETHAFOAM 220, BLACK	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125° ✓	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: PERRITT	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL AW139	
SCALE 1:6	DATE 1/3/2009
SHEET 3 OF 4	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	15-0145	-15 REPLCED CONTENTS LIST WITH RBW6505G00231-3T, DELETED LINES FROM TOOL LAYOUT, ADDED ITEM NUMBERS TO TOOL LAYOUT.	6/23/2015	RJC	JAG
3	16-0254	-15 DELETED ALL TEXT HT. NOTES, CH'D NOTE WAS USE PDF FOR MANUFACTURING IS USE PDF, CH'D DWG. TO SHEET METAL TOLERANCE.	12/5/2016	RJC	JAG



RBW6505G00231-3T

ITEM	PART No.	DESCRIPTION	QTY.
1	RBW6522A00231-W142S-3T	OUTPUT OIL SEAL ASSEMBLY SUPPORT TOOL, TGB/MAST	1
2	RBW6522A00231-W142AK-3T	OUTPUT OIL SEAL PRESS ASSEMBLY TOOL, TGB/MAST	1
3	RBW6522A00231-W142AJ-3T	OIL SEAL FIT / EXTRACTION TOOL, TGB SERVO ACTUATOR	1
4	RBW6500X01611-W142H-3T	OUTPUT OIL SEAL REMOVAL PRESS TOOL (TGB/OUTPUT)	1

NOTE:
USE PDF.



TITLE TGB SEAL REPLACEMENT TOOL KIT	
DWG NO. RBW6505G00231-3T-15	REV 3
MAT'L PLASTIC HEAT TREAT FINISH SPEC DRAWN BY: PERRITT CHECKED: DUERFELDT OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL AW139	
SCALE 1:2	DATE 1/3/2009
SHEET 4 OF 4	

INSIDE PLACARD